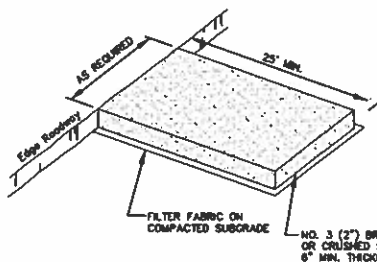


1. SUE CONSULTING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
2. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN'S REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM #18 AND ADDENDUMS.
3. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN AND LOCAL, STATE AND FEDERAL REQUIREMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE EXECUTION OF THE WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR DETERMINATION.
5. ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, AND CABLE ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED HEREIN FOR SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE 2002 CONNECTICUT GUIDELINES FOR SEDIMENT EROSION AND SEDIMENT CONTROL, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION HAS BEEN ESTABLISHED.
8. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITEE.
9. SUBSURFACE SEWAGE DISPOSAL SYSTEM AREA TO BE STAKED OUT AND MARKED TO PREVENT DISTURBANCE FROM OTHER CONSTRUCTION ACTIVITIES.
10. BASED UPON AVAILABLE INFORMATION THERE ARE NO SEPTIC SYSTEMS OR WATER SUPPLY WELLS WITHIN THE REQUIRED SEPARATION DISTANCES OF THE PROPOSED LEACHING SYSTEM.
11. ENGINEER TO STATE LOCATION OF SEPTIC SYSTEM WITH ELEVATIONS FOR BOTTOM OF LEACHING GALLERIES AND SET BENCH MARK IN AREA OF SYSTEM.
12. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" TOPSOIL, AND BE SEEDDED WITH GRASS OR SOO, AS SHOWN ON THE PLANS.

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 2-106-105-1 THROUGH 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES' MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2.
2. NORTH BASED UPON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 1983) ESTABLISHED BY G.P.S.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAS BEEN MADE UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CORROBORATED BY THE BEGINNING OF THE CONSTRUCTION "CALL BEFORE YOU DIAL" 1-800-922-4435. UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL COORDINATE SHOWN ON THE PLAN SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS:
 - A. "SUBDIVISION MAP ORCHARD WOOD SUBDIVISION, WIDE ROAD AND ACADEMY ROAD, CHESTER, CONNECTICUT," PREPARED BY RSC CONSULTING, SCALE "1"=80' SHEET 1 OF 1, DATED: OCTOBER 14, 2020 REVISED TO 3/23/2021
 - B. CURRENT ZONING DISTRICT R-40 RESIDENTIAL



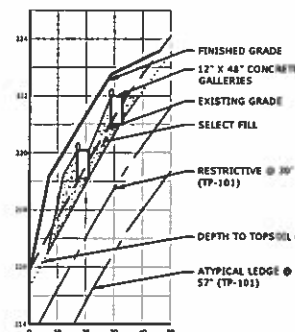
N.Y.S.

SELECT FILL MATERIAL:
SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPOSED OF CLEAN SAND, OR SAND AND GRAVEL, FREE OF ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:

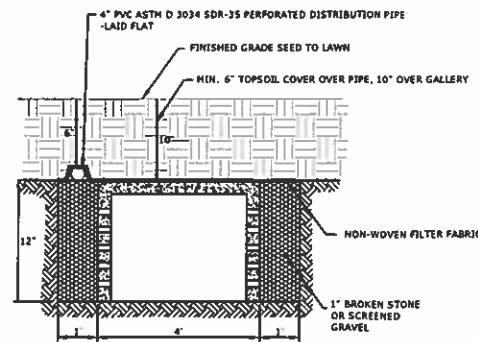
1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCHES.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN RETERMINED AND THE SIZES AREAS STARTED.
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50	10-75
#100	0-20	0-5
#200	0-5	0-3

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.



SECTION A-A'
SCALE: 1"=3' V
1"=30' H



**TYPICAL SECTION THRU 12" LEACHING
GALLERY WITH TOP DISTRIBUTION PIPE**
NOT TO SCALE

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FOUNDATION WALL = 223.1
SEPTIC TANK INLET = 222.5
SEPTIC TANK OUTLET = 222.25
D-BOX INVERT ROW 1 = 221.9
(MLO) = 221.8
ROW 1 INVERT ELEVATION = 221.8
ROW 1 BOTTOM ELEVATION = 220.8
D-BOX INVERT ROW 2 = 220.2
ROW 2 INVERT ELEVATION = 220.1
ROW 2 BOTTOM ELEVATION = 219.1

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DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND
TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL
SYSTEMS REVISED JANUARY 2018.

FLOW: 4 BEDROOMS
 PERC RATE: 10.1-20.0 MM/INCH
 EFFECTIVE AREA REQUIRED = 787.5 SQ.FT.

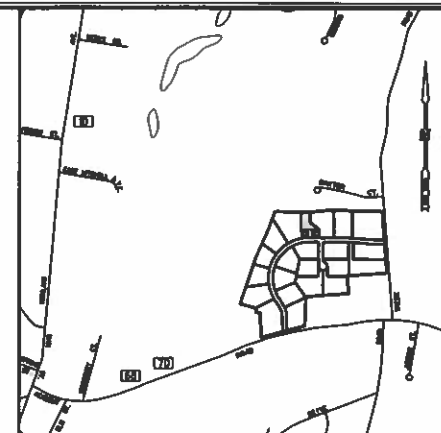
RESTRICTIVE LAYER = 30" COMPACT
 SLOPE = 1:15 OR
 RECEIVING SOIL DEPTH = 30" = 30" TOP OF LEACHING TO RL + 30" AVG DEPTH FROM EX
 GRADE TO RL/2
 HYDRAULIC FACTOR (HF) = 20
 FLOW FACTOR (FF) = 1.75
 PERCOLATION FACTOR (PF) = 1.25

USE 2 ROWS = 84 LF OF 12" X 48" CONCRETE LEACHING GALLERIES
WITH TOP DISTRIBUTION PIPES
EFFECTIVE LEACHING AREA PROVIDED = 832.0 SQ.FT. (128 LF @ 6.5 SQ.FT./L.F.)

RESERVE AREA: USE 2 ROWS OF 84 LF OF 12" X 48" CONCRETE LEACHING GALLERIES
WITH TOP DISTRIBUTION PIPES

4 BEDROOM HOUSE = 1250 = 1250 GAL
100-200 GAL. TUB = +250 GAL
200 GAL. TUB OR MORE = +500 GAL
GARBAGE GRINDER = +250 GAL

LOT 3:
REQUIRED = 1250
PROPOSED = 1500 GAL.
• NO LARGE TUB PROPOSED
• NO GARBAGE GRINDER



LOCATION MAP
SCALE: 1"=1000'

	WETLAND		MONUMENT TO BE SET
	100' UPLAND REVIEW		IRON PIN/PIPE
	WATERCOURSE		CONCRETE MONUMENT
	PROPERTY LINE		DRAINAGE MANHOLE
	EASEMENT		TELEPHONE MANHOLE
	EXISTING CONTOUR		ELECTRIC MANHOLE
	PROPOSED CONTOUR		WATER VALVE
	SEDIMENT FILTER FENCE		GAS VALVE
	BUILDING SETBACK LINE		HYDRANT
	EXISTING STONE WALL		LIGHT POST
	EXISTING TREELINE		UTILITY POLE
	DRAINAGE PIPING		GRADE TO DRAIN
	EXISTING FENCE		TEST PIT
	PROPOSED LIMIT OF CLEARING		PERCOLATION TEST

TEST PIT #100
0 - 8" TOPSOIL
8 - 32" RED/BROWN FINE SANDY LOAM - SOMEWHAT COMPACT
ATYPICAL ARKOSE @ 32" (RED VERY SMALL PLATES)
42 - 70" VERY COMPACT
NO MOTTLES, NO WATER, LEDGE 48 / 72 ATYPICAL @ 32"

PERC 100
DEPTH 26"
RATE 30 1-45 0 MIN/IN

TEST PIT #101
0 - 7" TOPSOIL
7 - 30" RED/BROWN FINE SANDY LOAM
30 - 57" VERY COMPACT RED/BROWN S
57 - 108" FINE SANDY LOAM VARIOUS
NO MOTTLES, NO WATER, ATYPICAL LE

PERC: 101
DEPTH: 32"
RATE: 10.1-20.0 MIN/IN

TEST PIT #102
0 - 10" TOPSOIL
10 - 20" YELLOW/BROWN FINE SANDY LOAM
20 - 35" RED/BROWN FINE SANDY LOAM - SOME SIFT 35" ATYPICAL LEDGE
44 - 96" VERY DENSE GRAVELLY SAND
NO MOTTLES, NO WATER, ATYPICAL LEDGE @ 35"

PERC 300
DEPTH 23"
RATE 1.1-100 MIN/IN

Test Pit 307
00'-09" TOPSOIL
09"-27" FINE SANDY LOAM
27"-104" FINE SANDY LOAM W/ ELEVATED SLT ROCKS &
COBBLES STARTING @ 71"

MOTTING-N/A
RESTRICTIVE- 27"
GROUNDWATER-N/
LEDGE-N/A
ROOTS- @ 66"


PERC 307
DEPTH 22"
RATE 11-10 @ MIN/IN

Test Pit 308
00'-12" TOPSOIL
12'-28" FINE SANDY LOAM TRACE GRAVEL
28'-49" GRAVELLY SANDY LOAM
49'-95" FINE-MEDIUM SAND

ZONE R-40	REQUIRED/PERMITTED	PROPOSED
MIN. LOT AREA	40,000 SQ.FT.	43,085 SQ.FT.
MIN. LOT WIDTH	200'	213'
MIN. LOT FRONTAGE	50'	191.8'
FRONT SETBACK	40'	41.5'
SIDE SETBACK	30'	47.2'
REAR SETBACK	40'	162'
MAX. LOT COVERAGE	108%	8.56%
MAX. DEVELOP. MAX. # OF UNITS	400	30.3*

ENGINEER'S CERTIFICATION
THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM CONFORMS
TO APPLICABLE HEALTH CODES AND CURRENT DESIGN
PRACTICE. NO OTHER WARRANTY IS GIVEN OR IMPLIED.

RYAN J. MCEVOY **CONN. P.E. 25786**

	SS REALTY DRIVE CHESHIRE, CONNECTICUT 06610 T: 203 273 1773 www.slrnae.com						
	IMPROVEMENT LOCATION SURVEY						
	PLAN OF PROPOSED IMPROVEMENTS LOT 3 "ORCHARD VIEW SUBDIVISION" WEISE ROAD AND ACADEMY ROAD CHESHIRE, CONNECTICUT						
	SCALE 1" = 30' DATE JULY 12, 2021 JOB 14087.00014						
DESIGNED	KJM	DRAWN	KJG	CHECKED	MMGS	SHEET	1 OF 1